PATENT COOPERATION TREATY

| From the INTERNATIONAL SEARCH | IING AUTH | ORITY | | | |
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| To: GEOFFREY L. MELNICK G. E. EHRLICH (1995) LTD. 11 MENACHEM BEGIN STREET RAMAT-GAN, ISRAEL 52 521 | | | PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY | | |
| | | | HVIEMVIII | | |
| | | | | (PCT Rule 43bis.1) | |
| | | | Date of mailing (day/month/year) | 23 SEP 20119 | |
| Applicant's or agent's file re- | ference | | FOR FURTHER | ACTION See paragraph 2 below | |
| 28891 International application No. | | International filing date | (day/month/vear) | Priority date (day/month/year) | |
| | | | | 27 January 2004 (27.01.2004) | |
| PCT/IL05/00090 International Patent Classific | ation (IPC) | 25 January 2005 (25.01.) or both national classification | | 27 January 2004 (27.01.2004) | |
| 1 | | | | 36.5, 288.5, 288.7; 356/246, 442; 250/238 | |
| Applicant 21/04; C12M | 1/30; GUIN | 1/10 and US Ct.: 422/82.0 | 7, 62.11, 102, 433/20 | 90.3, 200.3, 200.1, 33W 24W, 44Z, 23W 23B | |
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| 1. This opinion contains inc | dications rel | ating to the following item | s: | • | |
| Box No. I | Basis of the | e opinion | | | |
| Box No. II | Priority | | | | |
| Box No. III | Non-establi | ishment of opinion with reg | gard to novelty, inver | ntive step and industrial applicability | |
| Box No. IV | Lack of uni | ty of invention | | | |
| Box No. V | Reasoned s applicability | tatement under Rule 43bis. y; citations and explanation | .1(a)(i) with regard to ns supporting such st | o novelty, inventive step or industrial atement | |
| Box No. VI | Certain doc | uments cited | • | | |
| Box No. VII | Certain def | ects in the international app | olication | - | |
| Box No. VIII | Certain obs | ervations on the internation | nal application | | |
| 2. FURTHER ACTION | 1 | | | | |
| If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. | | | | | |
| If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. | | | | | |
| 3. For further details, see notes to Form PCT/ISA/220. | | | | | |
| Name and mailing address of | the ISA/US | | Authorized office | | |
| Mail Stop PCT, Attn: | IS A/US | • | John Kim | XINTO | |
| Commissioner for Pat P.O. Box 1450 | tents | | - | J. Wyster | |
| Alexandria, Virginia | | | Telephone No. 57 | 71-272)1700 | |

Facsimile No. (703) 305-3230
Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

| International application No. | |
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| PCT/IL05/00090 | |

| Box No. I Basis of this opinion | | | | | |
|--|----------------------------------|--|--|--|--|
| | | | | | |
| 1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. | | | | | |
| This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 2.3). | guage 3.1(b)). | | | | |
| 2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: | | | | | |
| a. type of material | | | | | |
| a sequence listing | | | | | |
| table(s) related to the sequence listing | | | | | |
| b. format of material | | | | | |
| in written format | | | | | |
| in computer readable form | | | | | |
| c. time of filing/furnishing | | | | | |
| contained in international application as filed. | • | | | | |
| filed together with the international application in computer readable form. | | | | | |
| furnished subsequently to this Authority for the purposes of search. | | | | | |
| Intrinsical subsequently to this transfer, yet the perpendicular | | | | | |
| In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto he or furnished, the required statements that the information in the subsequent or additional copies is identical application as filed or does not go beyond the application as filed, as appropriate, were furnished. | nas been filed to that in the | | | | |
| 4. Additional comments: | , | | | | |
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IL05/00090

| Box No. V Reasoned statement under Rule 43 bis. 1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement | | | | | |
|---|---|-------------------------|--|--|--|
| 1. Statement | | • | | | |
| Novelty (N) | Claims Please See Continuation Sheet | YES | | | |
| | Claims Please See Continuation Sheet | NONO | | | |
| Inventive step (IS) | Claims Please See Continuation Sheet | YES | | | |
| Inventive step (IS) | Claims Please See Continuation Sheet | NO | | | |
| | | | | | |
| Industrial applicability (IA) | Claims Please See Continuation Sheet | YES | | | |
| | Claims Please See Continuation Sheet | NO | | | |
| 2. Citations and explanations: | | | | | |
| PCT Article 33(2) as being anticipated by US 6,664, The US patent discloses a microfluidic device comp | rising a plurality of chambers connected by channels. The dical and electrical means of detection. See col.3, lines 13-15 | evice further comprises | | | |
| Claims 129-155 lacks novelty under PCT Article 33(2) as being anticipated by US 6,565,815 B1 (CHANG ET AL.) The CHANG patent discloses a plurality of microfluidic cassettes each comprising chambers connected by microfluidic channels and optical excitation and emission waveguides. | | | | | |
| Claims 1,16,19,20,22-31,34,38,47,48,60-128,156-171,173,174,177,178,186-199,202,206,207,212-214,219,221-231,233-242, meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly sugguest the structural elements defined therein. | | | | | |
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| Form PCT/ISA/237 (Box No. V) (January 2004) | | | | | |

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IL05/00090

| Supplemental Box In case the space in any of the preceding boxes is not sufficient. |
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| V.1. Reasoned Statements: The opinion as to Novelty was positive (Yes)with respect to claims NONE14,16,19,20,22-31,34,38,47,48, 60-128,156-171,173,174,177,178,186-199,202,206,207,212,214,219,221-231,233-242 The opinion as to Novelty was negative (No) with respect to claims 1-13,15,17,18,21,32,33,35-37,39-46,49-59,129-155,172,175,176,179-185,200,201,203,205,208-211,215-218,220,232 The opinion as to Inventive Step was positive (Yes)with respect to claims 14,16,19,20,22-31,34,38,47,48,60-128,156-171,173,174,177,178,186-199,202,206,207,212,214,219,221-231,233-242 The opinion as to Inventive Step was negative(NO) with respect to claims 1-13,15,17,18,21,32,33,35-37,39-46,49-59,129-155,172,175,176,179-185,200,201,203-205,208-211,215-218,220,232 The opinion as to Industrial Applicability was positive (YES) with respect to claims 1-242 The opinion as to Industrial Applicability was negative(NO) with respect to claims NONE |
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